**TRANSMITTAL OF APPEAL BRIEF (Large Entity)**Docket No.  
ITL.1015US

Re Application Of: Robert P. Meagley, et al.

Application No. 10/666,019	Filing Date September 17, 2003	Examiner Amanda C. Walke	Customer No. 21906	Group Art Unit 1752	Confirmation No. 7949
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Invention: Quantum Efficient Photoacid Generators for Photolithographic Processes

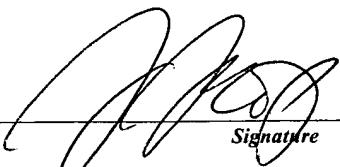
COMMISSIONER FOR PATENTS:

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**July 26, 2006**

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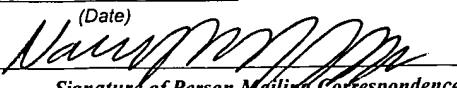
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Dated: **August 31, 2006**

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Intel Applicant:

Robert P. Meagley, et al.

§ Art Unit: 1752

Serial No.: 10/666,019

§ Examiner: Amanda C. Walke

Filed: September 17, 2003

§ Atty Docket: ITL.1015US  
(P16702)

For: Quantum Efficient Photoacid  
Generators for Photolithographic  
Processes

§ Assignee: Intel Corporation

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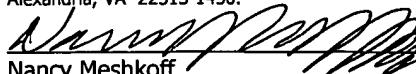
**APPEAL BRIEF**

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## **REAL PARTY IN INTEREST**

The real party in interest is the assignee Intel Corporation.

**RELATED APPEALS AND INTERFERENCES**

None.

## **STATUS OF CLAIMS**

Claims 1-2 (Rejected).

Claims 3-4 (Canceled).

Claim 5 (Rejected).

Claims 6-12 (Canceled).

Claims 13-16 (Rejected).

Claim 17 (Canceled).

Claim 18 (Rejected).

Claims 19-22 (Canceled).

Claims 23-28 (Rejected).

Claims 1-2, 5, 13-16, 18, and 23-28 are rejected and claims 14-16, 18, and 24 are the subject of this Appeal Brief.

## **STATUS OF AMENDMENTS**

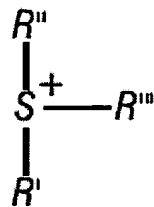
All amendments have been entered.

## **SUMMARY OF CLAIMED SUBJECT MATTER**

In the following discussion, the independent claims are read on one of many possible embodiments without limiting the claims:

14. A method comprising:

forming a photoresist with a photoacid generator with a cation having a base atom coupled to at least three entirely sigma-bonded non-cyclic moieties (Specification at page 7, lines 9-11).



**FIG. 1**

At this point, no issue has been raised that would suggest that the words in the claims have any meaning other than their ordinary meanings. Nothing in this section should be taken as an indication that any claim term has a meaning other than its ordinary meaning.

**GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL**

A. Are claims 14-16, 18, and 24 unpatentable under 35 U.S.C. § 103(a) over Kodama (U.S. Patent No. 6,858,370)?

## ARGUMENT

### **A. Are claims 14-16, 18, and 24 unpatentable under 35 U.S.C. § 103(a) over Kodama (U.S. Patent No. 6,858,370)?**

Appellate review is requested because these claims call for entirely sigma-bonded non-cyclic moieties.

The references cited by the Examiner are silent about whether the moieties are entirely sigma-bonded. While the Examiner points to passages and those passages suggest either single or double bonded connections may be made from the base atom to the moieties, nothing is said about what those moieties that are connected by single or double bonds are made up of. Thus, there is no teaching that all of these elements are entirely sigma-bonded.

Claim 14 calls for a photoacid generator having a base atom coupled to at least three entirely sigma-bonded non-cyclic moieties. The reference suggests using either single or double bonds to bond those moieties at the base atom, but says nothing about how the moieties themselves are configured. Therefore, reconsideration of the rejection of claim 14 would be appropriate.

Claim 24 calls for a photoacid generator including a cation that is entirely sigma-bonded. For the reasons just described, this claim also patentably distinguishes.

Applicant respectfully requests that each of the final rejections be reversed and that the claims subject to this Appeal be allowed to issue.

Respectfully submitted,



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Date: August 31, 2006

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## CLAIMS APPENDIX

The claims on appeal are:

14. A method comprising:

forming a photoresist with a photoacid generator with a cation having a base atom coupled to at least three entirely sigma-bonded non-cyclic moieties.

15. The method of claim 14 including providing a cation to said photoacid generator that does not include phenyl.

16. The method of claim 14 including providing an entirely sigma-bonded cation.

18. The method of claim 14 including forming a photoresist with a photoacid generator that is more transparent than phenyl containing photoacid generators.

23. A photoresist comprising:

a photoacid generator including a cation that is entirely sigma-bonded and including a base atom coupled to at least three non-cyclic moieties.

24. The photoresist of claim 23 wherein said cation includes a base atom coupled by sigma-bonds to at least three moieties.

## **EVIDENCE APPENDIX**

None.

**RELATED PROCEEDINGS APPENDIX**

None.